

Title (en)

Method for manufacturing a three dimensional object

Title (de)

Verfahren zur Herstellung eines dreidimensionalen Objektes

Title (fr)

Procédé pour la fabrication d'objets tridimensionnelles

Publication

**EP 1400340 B1 20080116 (DE)**

Application

**EP 03017918 A 20030806**

Priority

- DE 10244047 A 20020921
- DE 10311446 A 20030315

Abstract (en)

[origin: EP1400340A1] A method for preparation of a 3-dimensional object including preparation of a layer of powder material, selective application of a bonding restraint (BR) to a selective region of this layer selected according to the cross-section of the object, repetition of these steps to form a matrix, where the outer limits of the object are formed via the boundary between the powder material with the applied BR and the untreated powder material is new. A method for preparation of a 3-dimensional object including: (a) preparation of a layer of powder material, (b) selective application of a bonding restraint to a selective region of layer (a), selected according to the cross-section of the object so that the bonding restraint is applied only on the region which does not comprise the cross-section of the object, (c) repetition of steps (a) and (b) until all cross-section surfaces of the object are present in a matrix and the outer limits of the object are formed via the boundary between the powder material with the applied bonding restraint and the untreated powder material, and (d) a least one treatment of the layers so that the parts without a bonding restraint are mutually bonded together is new. Independent claims are included for: (1) a shaped body prepared as above; (2) a powder material of particle size 10-200 micron and at least one polymer or copolymer selected from: polyester-, acetal-, propylene-, ethylene-, styrene-, carbonate-, PMMA-, PMMI-, ionomer, polyamides, copolyester, copolyamides, terpolymer, or ABS, or a mixture of these; (3) a wettable BR containing water and surfactant.

IPC 8 full level

**B29C 67/00** (2006.01); **C08J 7/04** (2006.01); **B29B 13/08** (2006.01); **B29C 65/34** (2006.01); **B29C 67/04** (2006.01)

CPC (source: EP KR US)

**B29C 64/153** (2017.08 - EP KR US); **B33Y 10/00** (2014.12 - EP KR US); **B33Y 70/00** (2014.12 - EP KR US); **B33Y 80/00** (2014.12 - KR); **B29K 2067/00** (2013.01 - KR); **B29K 2077/00** (2013.01 - KR); **B29K 2505/02** (2013.01 - KR); **B29K 2509/08** (2013.01 - KR); **B33Y 80/00** (2014.12 - EP US); **Y10T 156/10** (2015.01 - EP US); **Y10T 428/2982** (2015.01 - EP US)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1400340 A1 20040324**; **EP 1400340 B1 20080116**; AT E383939 T1 20080215; CA 2441676 A1 20040321; CN 1500608 A 20040602; CN 1500608 B 20100609; DE 50309009 D1 20080306; ES 2299649 T3 20080601; JP 2004114685 A 20040415; JP 4791688 B2 20111012; KR 20040026131 A 20040327; PL 362310 A1 20040322; SG 135925 A1 20071029; US 2004137228 A1 20040715; US 2006244169 A1 20061102

DOCDB simple family (application)

**EP 03017918 A 20030806**; AT 03017918 T 20030806; CA 2441676 A 20030919; CN 03164906 A 20030919; DE 50309009 T 20030806; ES 03017918 T 20030806; JP 2003328220 A 20030919; KR 20030065139 A 20030919; PL 36231003 A 20030919; SG 2003055886 A 20030905; US 33227006 A 20060117; US 66547203 A 20030922